

# 16-Port 10/100Mbps NWay Switch

## User Manual

Ver. 2.00

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## **Introduction**

The 16-Port NWay Switch is designed to for the needs of small enterprise and home networks. Its easy installation can boost network performance just in a couple of minutes. With its Auto-Negotiation capability, all ports can be configured to its optimum speed of 10/20Mbps or 100/200Mbps automatically. It eliminates bottlenecks and bandwidth constraints, optimizes network performance. Inevitably the 16-Port NWay Switch is your best choose to improve network performance with the highest performance/price ratio.

## **Key Features**

- 10/100Mbps twisted-pair ports with Auto-negotiation.
- Bridging capability for 100Mbps and 10Mbps segments.
- Provides Store-and-Forward Switching Architecture.
- Supports Auto MDI/MDI-X.
- All ports support Speed, Duplex and Flow-control auto-negotiation
- Supports IEEE802.3x Flow-Control Full-Duplex operation.
- Supports Back-Pressure Flow-Control Half-Duplex operation.
- 4M bits Packet Buffer.
- 8K entries Address Table and 128-entry CAM.
- Sixteen RJ-45 Ports
- Ultra-low power consumption

## **Packing List**

Thank you for purchasing of this Switch. The package should contain the following items:

- One 16-Port Switch
- One AC/DC Power Adapter
- One User Manual
- Four rubber feet

If anything is missing, please contact your place of purchase.

## **Cabling**

### *10Mbps*

Category 3, 4, or 5 Twisted-Pair cable can be used for transmitting data at 10Mbps or 20Mbps bandwidth on 10BASE-T networks.

### *100Mbps*

Only Category 5 Twisted-Pair cable can be used for transmitting data at 100Mbps or 200Mbps bandwidth on 100BASE-TX networks.

## Networking

### *Connecting computers to Switch*

1. Make sure all computers to be connected to the Switch have installed properly a network interface card.
2. Connect computer to the Switch with a twisted-pair cable. The cable should have RJ-45 plugs. Use Category 5 cable for all connections. Please pay attention to the length of each cable should be less than 100 meters.
3. Plug one end of the cable to the RJ-45 port of the computer's NIC. Plug the other end to any available port on the Switch.

### **Status LEDs**

LED	Color	State	Indication
POWER	Green	On	Power is ON
LINK/ACT	Green	On	Valid Network Connection
		Off	No Network Connection
		Flash	Sending/Receiving Data

## Specifications

<b>Model</b>	16-Port 10/100Mbps N-Way Switch
<b>Access Method</b>	CSMA/CD
<b>Standards</b>	IEEE802.3u 100BASE-TX IEEE802.3 10BASE-T
<b>Media Support</b>	10BASE-T 100-Ohm Cat. 3, 4, 5 twisted-pair 100BASE-T 100-Ohm Cat. 5 twisted-pair
<b>Ports</b>	16 RJ-45 ports, auto-crossover
<b>Bandwidth</b>	100BASE-TX: 200/100Mbps via Auto-Negotiation 10BASE-T: 20/10Mbps via Auto-Negotiation
<b>Switching Method</b>	Store-And-Forward
<b>Filtering/Forwarding Rate</b>	100Mbps: 148800 packets/second 10Mbps: 14880 packets/second
<b>Flow Control</b>	Full Duplex – IEEE802.3x Half Duplex – Back Pressure
<b>MAC Entry</b>	8K entries
<b>Packet Buffer</b>	4M bits per system
<b>Power Requirement</b>	DC 9V/1.5A
<b>Operating Temperature</b>	0 to 50 degree C
<b>Storage Temperature</b>	-20 to 70 degree C
<b>Humidity</b>	10% to 90% non-condensing
<b>Status LEDs</b>	Per port LED: speed, link/activity and full/half duplex operation Per Unit LED: Power
<b>Dimensions</b>	145 x 88 x 38 mm
<b>Certification</b>	FCC Class A, CE Mark